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CATALYTIC COMPOSITION FOR THE (CO) POLYMERIZATION OF ALPHA-OLEFINS

## Abstract

Catalytic composition for the (co) polymerization of ethylene and other  $\alpha$ -olefins, including a metallocene complex of a metal M of group 4 of the periodic table or the product obtainable from the same combined with a suitable activator, wherein said metallocene complex includes at least one cyclopentadienyl group and at least one unsaturated hydrocarbyl organic group bonded to the metal M, having the following formula (I):

$$-(A_x D_y U_z) R^I \qquad (I)$$

## wherein:

A represents any monomeric unit deriving from a vinylaromatic group polymerizable by means of anionic polymerization, having from 6 to 20 carbon atoms;

D represents any monomeric unit deriving from a conjugated diolefin polymerizable by means of anionic polymerization, having from 4 to 20 carbon atoms;

U represents any generic optional monomeric unit deriving from an unsaturated compound co-polymerizable with any of the above conjugated diolefins D or vinylaromatic compounds A;

R<sup>I</sup> represents hydrogen or a hydrocarbyl group having

R<sup>I</sup> represents hydrogen or a hydrocarbyl group having from 1 to 20 carbon atoms, each index "x" and "y" can be independently zero or an integer, provided the sum (x+y) is equal to or higher than 2, preferably between 2 and 50, more preferably between 2 and 25;

"z" can be zero or an integer ranging from 1 to 20.